

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

CHUNLIN LIANG, ET AL.

Application No.:

Filed:

For: **A THERMAL CONDUCTING TRENCH  
IN A SEMICONDUCTOR STRUCTURE  
AND METHOD FOR FORMING THE  
SAME**

Art Group: 2823

Examiner: Pham, Thanh V.

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure, enclosed is a copy of Information Disclosure Statement by Applicant (form PTO/SB/08), which is being submitted concurrently with the Divisional Application. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s). Some or all of the references listed on the enclosed PTO/SB/08 were previously identified in the parent application (Application No. 09/791,054, filed February 21, 2001) and copies of the references were furnished at that time. Accordingly, per 37 CFR §1.98(d)(1) additional copies of those references are not submitted herewith.

The references were cited in a Search Report dated February 13, 2001 (copy enclosed herewith) from a foreign patent office in a counterpart EPO application.


The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: July 31, 2003

  
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Los Angeles, California 90025  
(310) 207-3800

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
Application Number					
Filing Date					
First Named Inventor		Chunlin Liang			
Art Unit		2823			
Examiner Name		Pham, Thanh V.			
Attorney Docket Number		42P4214D/C			
Sheet	1	of	4		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-4,646,118	02-24-1987	Takemae	
		US-4,649,625	03-17-1987	Lu	
		US-4,656,101	04-07-1987	Yamazaki	
		US-4,751,558	06-14-1988	Kenney	
		US-4,763,181	08-09-1988	Tasch, Jr.	
		US-4,811,067	03-07-1989	Fitzgerald, et al.	
		US-4,894,696	01-16-1990	Takeda, et al.	
		US-5,001,525	03-19-1991	Kenney	
		US-5,026,658	06-25-1991	Fuse, et al.	
		US-5,034,347	07-23-1991	Kakihana	
		US-5,071,782	12-10-1991	Mori	
		US-5,187,566	02-16-1993	Yoshikawa, et al.	
		US-5,250,458	10-05-1993	Tsukamoto, et al.	
		US-5,287,001	02-15-1994	Buchmann, et al.	
		US-5,309,008	05-04-1994	Watanabe	
		US-5,313,094	05-17-1994	Beyer, et al.	
		US-5,369,049	11-29-1994	Acocella, et al.	
		US-5,384,474	01-24-1995	Park, et al.	
		US-5,386,131	01-31-1995	Sato	
		US-5,387,534	02-07-1995	Prall	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		GB 2 246 471 A	01-29-1992	Mikoshiba, et al.		
		EP 0 553 904 A1	01-11-1993	Beyer, et al.		
		EP 0 751 567 A2	01-02-1997	Andricacos, et al.		
		EP 0 751 567 A3	11-03-1999	Andricacos, et al.		
		JP 07086298	03-31-1995	Takenori		

Examiner Signature	Date Considered
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08A (05-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 05/02/2003.

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				Examiner Name	
				Chunlin Liang	
				2823	
				Pham, Thanh V.	
				42P4214DC	
<b>Sheet</b>	4	<b>of</b>	4		

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		Number - Kind Code <sup>2</sup> (if known)			
		US-5,767,578	06-16-1998	Chang, et al.	
		US-5,798,545	08-25-1998	Iwasa, et al.	
		US-5,801,423	09-01-1998	Manning	
		US-5,851,915	12-22-1998	Miyakawa	
		US-5,909,039	06-01-1999	Bakewski, et al.	
		US-5,909,044	06-01-1999	Chakravarti, et al.	
		US-5,945,707	08-31-1999	Bronner, et al.	
		US-5,969,395	10-19-1999	Lee	
		US-5,970,339	10-19-1999	Choi	
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